

## EAST Search History

| Ref # | Hits    | Search Query             | DBs                                      | Default Operator | Plurals | Time Stamp          |
|-------|---------|--------------------------|--|------------------|---------|---------------------|
| L12   | 1       | "200033282"              | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR               | OFF     | 2008/07/23<br>12:01 |
| S1    | 676     | 423/447.3                | US-PGPUB;<br>USPAT                       | ADJ              | ON      | 2007/09/04<br>17:25 |
| S2    | 311     | S1 and carbon fiber      | US-PGPUB;<br>USPAT                       | ADJ              | ON      | 2007/09/04<br>17:25 |
| S3    | 83      | S2 and vapor grown       | US-PGPUB;<br>USPAT                       | ADJ              | ON      | 2007/09/04<br>17:25 |
| S4    | 46      | S3 and filament          | US-PGPUB;<br>USPAT                       | ADJ              | ON      | 2007/09/04<br>17:41 |
| S5    | 0       | S4 and branching degree  | US-PGPUB;<br>USPAT                       | ADJ              | ON      | 2007/09/04<br>17:26 |
| S6    | 1       | S4 and branching         | US-PGPUB;<br>USPAT                       | ADJ              | ON      | 2007/09/04<br>17:26 |
| S7    | 0       | S4 and occurrences       | US-PGPUB;<br>USPAT                       | ADJ              | ON      | 2007/09/04<br>17:42 |
| S8    | 15      | S4 and bulk density      | US-PGPUB;<br>USPAT                       | ADJ              | ON      | 2007/09/04<br>17:42 |
| S9    | 626     | vapor grown carbon fiber | US-PGPUB;<br>USPAT                       | ADJ              | ON      | 2007/11/27<br>17:13 |
| S10   | 6       | S9 same branching        | US-PGPUB;<br>USPAT                       | ADJ              | ON      | 2007/11/27<br>17:13 |
| S11   | 421     | branching degree         | US-PGPUB;<br>USPAT                       | ADJ              | ON      | 2007/11/27<br>17:17 |
| S12   | 7       | S11 and S9               | US-PGPUB;<br>USPAT                       | ADJ              | ON      | 2007/11/27<br>17:17 |
| S13   | 1023245 | density                  | US-PGPUB;<br>USPAT                       | ADJ              | ON      | 2007/11/27<br>17:22 |
| S14   | 3       | S9 near S13              | US-PGPUB;<br>USPAT                       | ADJ              | ON      | 2007/11/27<br>17:22 |
| S15   | 38      | "5594060"                | US-PGPUB;<br>USPAT                       | ADJ              | ON      | 2007/11/28<br>09:00 |
| S16   | 0       | "2002146562"             | US-PGPUB;<br>USPAT                       | ADJ              | ON      | 2007/11/28<br>09:01 |
| S17   | 0       | ("2002146562").PN.       | US-PGPUB;<br>USPAT                       | OR               | OFF     | 2007/11/28<br>09:02 |
| S18   | 0       | "2002146562"             | US-PGPUB;<br>USPAT                       | ADJ              | ON      | 2007/11/28<br>09:02 |
| S19   | 18384   | morita                   | US-PGPUB;<br>USPAT                       | ADJ              | ON      | 2007/11/28<br>09:02 |
| S20   | 18384   | Morita                   | US-PGPUB;<br>USPAT                       | ADJ              | ON      | 2007/11/28<br>09:02 |

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|-----|-----|---|--|-----|-----|---------------------|
| S21 | 626 | vapor grown carbon fiber  | US-PGPUB;<br>USPAT                       | ADJ | ON  | 2007/11/28<br>09:04 |
| S22 | 42  | S20 and S21   | US-PGPUB;<br>USPAT                       | ADJ | ON  | 2007/11/28<br>09:04 |
| S23 | 128 | "4572813"   | US-PGPUB;<br>USPAT                       | ADJ | ON  | 2007/11/28<br>09:11 |
| S24 | 14  | "5643990"   | US-PGPUB;<br>USPAT                       | ADJ | ON  | 2007/11/28<br>09:12 |
| S25 | 132 | "4572813"   | US-PGPUB;<br>USPAT                       | OR  | OFF | 2008/02/28<br>13:39 |
| S26 | 15  | "5643990"   | US-PGPUB;<br>USPAT                       | OR  | OFF | 2008/02/28<br>13:40 |
| S27 | 5   | "7150419"   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR  | OFF | 2008/02/28<br>13:40 |
| S28 | 74  | "150419"  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR  | OFF | 2008/02/28<br>13:40 |
| S29 | 22  | S28 and denko   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR  | OFF | 2008/02/28<br>13:41 |
| S30 | 116 | "49412"   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR  | OFF | 2008/02/28<br>13:42 |
| S31 | 5   | "6406539"   | US-PGPUB;<br>USPAT                       | OR  | OFF | 2008/02/28<br>13:48 |
| S32 | 11  | "6489025"   | US-PGPUB;<br>USPAT                       | OR  | OFF | 2008/02/28<br>13:57 |
| S33 | 4   | "6474627"   | US-PGPUB;<br>USPAT                       | OR  | OFF | 2008/02/28<br>13:58 |
| S34 | 1   | "6974627"   | US-PGPUB;<br>USPAT                       | OR  | OFF | 2008/02/28<br>13:58 |
| S35 | 2   | "6998176"   | US-PGPUB;<br>USPAT                       | OR  | OFF | 2008/02/28<br>13:59 |
| S36 | 6   | (US-20020146562-\$).did.<br>or (US-5413866-\$ or US-<br>5594060-\$ or US-5413773-<br>\$ or US-5643990-\$ or US-<br>4572813-\$).did. | US-PGPUB;<br>USPAT                       | OR  | OFF | 2008/02/28<br>14:35 |
| S37 | 0   | S29 and branching   | US-PGPUB;<br>USPAT                       | OR  | OFF | 2008/02/28<br>14:35 |
| S38 | 1   | S36 and branching   | US-PGPUB;<br>USPAT                       | OR  | OFF | 2008/02/28<br>14:35 |
| S39 | 0   | S36 and occurrence  | US-PGPUB;<br>USPAT                       | OR  | OFF | 2008/02/28<br>14:43 |
| S40 | 0   | S36 and occurrence  | US-PGPUB;<br>USPAT                       | OR  | OFF | 2008/02/28<br>14:43 |
| S41 | 1   | S36 and branching   | US-PGPUB;<br>USPAT                       | OR  | OFF | 2008/02/28<br>14:44 |

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|-----|--------|--|--------------------|----|-----|---------------------|
| S42 | 3      | S36 and filament                       | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>14:44 |
| S43 | 5      | S36 and density                        | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>14:52 |
| S44 | 3      | S43 and resistance                     | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>14:53 |
| S45 | 303    | "vapor grown carbon fiber"             | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>15:53 |
| S46 | 9      | S45 and "branching degree"             | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>15:53 |
| S47 | 392    | "branching degree"                     | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>15:54 |
| S48 | 34622  | "carbon fiber"                         | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>15:54 |
| S49 | 23     | S47 and S48                            | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>15:54 |
| S50 | 446    | 423/447.3.ccls.                        | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:01 |
| S51 | 22     | S50 and "vapor grown carbon fiber"     | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:01 |
| S52 | 2      | S51 and yano                           | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:03 |
| S53 | 3      | S45 and yano                           | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:03 |
| S54 | 190954 | "428".clas.                            | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:14 |
| S55 | 72     | S54 and "vapor grown carbon fiber"     | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:14 |
| S56 | 1      | S55 and occurrences                    | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:15 |
| S57 | 2      | S55 and occurrence                     | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:15 |
| S58 | 2      | S55 and branching                      | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:17 |
| S59 | 3316   | S54 and branching                      | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:17 |
| S60 | 95     | S59 and "carbon fiber"                 | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:17 |
| S61 | 68     | S60 and degree                         | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:17 |
| S62 | 29     | S61 and mass                           | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:18 |
| S63 | 26     | S62 and (point or points or pt or pts) | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:18 |
| S64 | 17     | S63 and vapor                          | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:19 |
| S65 | 8246   | branching same degree                  | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:31 |

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|-----|-------|---|--------------------|----|-----|---------------------|
| S66 | 699   | S65 same point  | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:31 |
| S67 | 0     | S66 same "carbon fiber"   | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:32 |
| S68 | 4     | S66 and "carbon fiber"  | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:32 |
| S69 | 73435 | "423".das.  | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:33 |
| S70 | 1185  | S69 and "carbon fiber"  | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:34 |
| S71 | 565   | S70 and vapor   | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:34 |
| S72 | 119   | S71 and (branch or<br>branching or branches or<br>branched)       | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:34 |
| S73 | 113   | S72 and (degree or point)   | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:34 |
| S74 | 22    | S73 and "bulk density"  | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:34 |
| S75 | 21    | S74 and diameter  | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:35 |
| S76 | 34622 | "carbon fiber"  | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:39 |
| S77 | 4348  | S76 and filament  | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:39 |
| S78 | 522   | S77 and (branching or<br>branch or branched or<br>branches)       | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:39 |
| S79 | 492   | S78 and (degree or point<br>or degrees or points or pt<br>or pts) | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:39 |
| S80 | 50    | S79 and "bulk density"  | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:40 |
| S81 | 44    | S80 and vapor   | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:40 |
| S82 | 27    | S81 and grown   | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:40 |
| S83 | 6     | S82 and occur\$   | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:41 |
| S84 | 392   | "branching degree"  | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:44 |
| S85 | 18    | S84 and filament  | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>16:45 |
| S86 | 1520  | "carbon fiber" same<br>filament                                   | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>17:43 |
| S87 | 82    | S86 same vapor  | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>17:43 |
| S88 | 30    | S87 and branch\$  | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>17:43 |

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|------|--------|---|--------------------|----|-----|---------------------|
| S89  | 24     | S88 and degree                              | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>17:43 |
| S90  | 320    | "branching degree" and carbon               | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>17:48 |
| S91  | 99     | "branching degree" same carbon              | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>17:49 |
| S92  | 1      | "branching degree" near carbon              | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>17:49 |
| S93  | 5      | S91 and filament                            | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>17:49 |
| S94  | 0      | ("2006/0046051").URPN.                      | USPAT              | OR | OFF | 2008/02/28<br>17:49 |
| S95  | 8      | S91 and mass                                | USPAT              | OR | OFF | 2008/02/28<br>17:51 |
| S96  | 154    | "branching degree" and mass                 | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>17:53 |
| S97  | 49     | "branching degree" and "conductivity"       | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>17:53 |
| S98  | 43     | S97 and carbon                              | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>17:53 |
| S99  | 13     | S98 and filament                            | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>17:53 |
| S100 | 13     | S99 and mass                                | US-PGPUB;<br>USPAT | OR | OFF | 2008/02/28<br>17:53 |
| S101 | 39     | "5594060"                                   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>11:56 |
| S102 | 727    | 423/447.1 ccls.                             | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>13:14 |
| S103 | 982885 | carbon                                      | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>13:14 |
| S104 | 538217 | fiber or fibers                             | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>13:15 |
| S105 | 744828 | fiber or fibers or fibre or fibres          | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>13:15 |
| S106 | 694    | S102 and S103                               | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>13:15 |
| S107 | 535    | S105 and S106                               | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>13:15 |
| S108 | 642290 | branch or branches or branched or branching | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>13:15 |
| S109 | 104    | S107 and S108                               | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>13:15 |
| S110 | 987    | "vapor grown"                               | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>13:16 |
| S111 | 987    | "vapor grown" or "vapor-grown"              | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>13:16 |
| S112 | 13     | S109 and S111                               | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>13:16 |

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|------|--------|---|--------------------|----|-----|---------------------|
| S113 | 727    | 423/447.1.cds.  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>16:03 |
| S114 | 982885 | carbon  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>16:03 |
| S115 | 744828 | fiber or fibers or fibre or<br>fibres                             | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>16:03 |
| S116 | 694    | S113 and S114   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>16:03 |
| S117 | 535    | S115 and S116   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>16:03 |
| S118 | 642290 | branch or branches or<br>branched or branching                    | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>16:03 |
| S119 | 104    | S117 and S118   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>16:03 |
| S120 | 987    | "vapor grown" or "vapor-<br>grown"                                | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>16:03 |
| S121 | 13     | S119 and S120   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>16:03 |
| S122 | 0      | S121 and occurrence\$   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>16:03 |
| S123 | 9      | S121 and (degree or<br>degrees)                                   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>16:14 |
| S124 | 13     | S121 and mass\$   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>16:19 |
| S125 | 7      | S124 and ("bulk density"<br>or density or "bulk-<br>density")     | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>16:19 |
| S126 | 494    | 423/447.2.cds.  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>16:30 |
| S127 | 475    | S126 and S114   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>16:31 |
| S128 | 408    | S115 and S127   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>16:31 |
| S129 | 817162 | fiber or fibers or fibre or<br>fibres or filament or<br>filaments | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>16:31 |
| S130 | 413    | S129 and S127   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>16:31 |
| S131 | 78     | S130 and S118   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>16:32 |
| S132 | 10     | S131 and S120   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>16:32 |
| S133 | 7      | S132 and ("bulk density"<br>or density or "bulk-<br>density")     | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>16:32 |
| S134 | 473    | 423/447.3.cds.  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:02 |
| S135 | 463    | S134 and S114   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:02 |

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|------|-----|---|--------------------|----|-----|---------------------|
| S136 | 299 | S129 and S135   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:02 |
| S137 | 62  | S136 and S118   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:03 |
| S138 | 12  | S137 and S120   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:03 |
| S139 | 5   | S138 and ("bulk density"<br>or density or "bulk-<br>density") | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:03 |
| S140 | 388 | 502/180.ccls.   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:07 |
| S141 | 323 | S140 and S114   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:07 |
| S142 | 120 | S141 and S129   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:07 |
| S143 | 5   | S142 and S120   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:08 |
| S144 | 5   | S143 and ("bulk density"<br>or density or "bulk-<br>density") | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:08 |
| S145 | 77  | S142 and ("bulk density"<br>or density or "bulk-<br>density") | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:10 |
| S146 | 44  | S145 and resistance   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:11 |
| S147 | 14  | S142 and ("bulk density"<br>or "bulk-density")                | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:11 |
| S148 | 7   | S147 and resistance   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:11 |
| S149 | 46  | 977/754.ccls.   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:12 |
| S150 | 37  | S149 and S114   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:13 |
| S151 | 14  | S150 and S129   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:13 |
| S152 | 0   | S151 and S120   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:13 |
| S153 | 0   | S151 and ("bulk density"<br>or "bulk-density")                | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:13 |
| S154 | 8   | S151 and ("bulk density"<br>or density or "bulk-<br>density") | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:13 |
| S155 | 42  | S149 and S118   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:16 |
| S156 | 35  | S155 and S114   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:16 |
| S157 | 14  | S156 and S129   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:16 |

|      |      |   |                    |    |     |                     |
|------|------|---|--------------------|----|-----|---------------------|
| S158 | 190  | 977/788.ccls.   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:18 |
| S159 | 131  | S158 and S114   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:18 |
| S160 | 73   | S159 and S129   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:19 |
| S161 | 3    | S160 and S120   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:19 |
| S162 | 0    | S161 and S118   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:19 |
| S163 | 1    | S161 and ("bulk density"<br>or density or "bulk-<br>density") | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:20 |
| S164 | 21   | S160 and S118   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:20 |
| S165 | 9    | S164 and ("bulk density"<br>or density or "bulk-<br>density") | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:20 |
| S166 | 11   | 977/832.ccls.   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:23 |
| S167 | 4    | S166 and S114   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:24 |
| S168 | 1    | S167 and S129   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:24 |
| S169 | 54   | 977/833.ccls.   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:24 |
| S170 | 40   | S169 and S114   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:24 |
| S171 | 19   | S170 and S129   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:24 |
| S172 | 0    | S171 and S120   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:24 |
| S173 | 3    | S171 and S118   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:24 |
| S174 | 1017 | 428/367.ccls.   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:25 |
| S175 | 862  | S174 and S114   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:25 |
| S176 | 809  | S175 and S129   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:26 |
| S177 | 40   | S176 and S120   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:26 |
| S178 | 8    | S177 and S118   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:26 |
| S179 | 5    | S178 and ("bulk density"<br>or density or "bulk-<br>density") | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:27 |
| S180 | 40   | S174 and S120   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:32 |



|      |       |  |                    |    |     |                     |
|------|-------|--|--------------------|----|-----|---------------------|
| S181 | 26    | S180 and ("bulk density" or density or "bulk-density") | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:32 |
| S182 | 13    | S181 and resistance                                    | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:32 |
| S183 | 13    | S182 and S129  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:32 |
| S184 | 13    | S183 and S114  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:32 |
| S185 | 894   | 428/401.ccls.  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:40 |
| S186 | 320   | S185 and S114  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:40 |
| S187 | 278   | S186 and S129  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:40 |
| S188 | 4     | S187 and S120  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:40 |
| S189 | 3     | S188 and ("bulk density" or density or "bulk-density") | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:41 |
| S190 | 3     | S189 and resistance                                    | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:41 |
| S191 | 357   | S185 and ("bulk density" or density or "bulk-density") | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:42 |
| S192 | 3     | S191 and S120  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:43 |
| S193 | 323   | S191 and S129  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:43 |
| S194 | 176   | S193 and S114  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:43 |
| S195 | 45    | S194 and S118  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:43 |
| S196 | 32    | S195 and resistance                                    | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:44 |
| S197 | 33    | S185 and ("bulk density" or "bulk-density")            | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:45 |
| S198 | 33    | S197 and S129  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:45 |
| S199 | 16    | S198 and S114  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:45 |
| S200 | 0     | S199 and S118  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:45 |
| S201 | 64432 | S114 near S129   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:51 |
| S202 | 9321  | S201 and S118  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:51 |
| S203 | 218   | S202 and S120  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:51 |

|      |         |  |                    |    |     |                     |
|------|---------|--|--------------------|----|-----|---------------------|
| S204 | 36      | S203 and ("bulk density" or "bulk-density")  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:51 |
| S205 | 31      | S204 and resistance  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>17:52 |
| S206 | 410     | "branching degree"   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>18:07 |
| S207 | 337     | S206 and S114  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>18:07 |
| S208 | 12      | S207 and S120  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>18:07 |
| S209 | 41      | occurrences/\$   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>18:08 |
| S210 | 10      | S209 and S114  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/21<br>18:08 |
| S211 | 1686263 | fiber or fibers or fibre or<br>fibres or nanofiber or<br>nanofibers or nanofibre or<br>nanofibres or tube or tubes<br>or nanotube or nanotubes                             | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/22<br>09:08 |
| S212 | 983313  | carbon   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/22<br>09:08 |
| S213 | 71799   | S212 adj S211  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/22<br>09:08 |
| S214 | 10697   | S213 and (branch or<br>branches or branched or<br>branching)   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/22<br>09:10 |
| S215 | 508     | S213 same (branch or<br>branches or branched or<br>branching)  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/22<br>09:10 |
| S216 | 74239   | "423".clas.  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/22<br>09:12 |
| S217 | 143     | S215 and S216  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/22<br>09:12 |
| S218 | 20      | S217 and "bulk density"  | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/22<br>09:12 |
| S219 | 1731378 | fiber or fibers or fibre or<br>fibres or nanofiber or<br>nanofibers or nanofibre or<br>nanofibres or tube or tubes<br>or nanotube or nanotubes<br>or filament or filaments | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/22<br>09:46 |
| S220 | 75761   | S212 near S219   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/22<br>09:46 |
| S221 | 81321   | S212 adj3 S219   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/22<br>09:47 |
| S222 | 77990   | S212 adj2 S219   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/22<br>09:47 |
| S223 | 72695   | S212 adj1 S219   | US-PGPUB;<br>USPAT | OR | OFF | 2008/07/22<br>09:47 |

|      |       |   |                           |    |     |                     |
|------|-------|---|---------------------------|----|-----|---------------------|
| S224 | 1007  | "vapor grown" or "vapor-grown" or "vapour-grown" or "vapour grown"  | US-PGPUB;<br>USPAT        | OR | OFF | 2008/07/22<br>09:54 |
| S225 | 10843 | S223 and (branch or branches or branched or branching)  | US-PGPUB;<br>USPAT        | OR | OFF | 2008/07/22<br>09:55 |
| S226 | 228   | S224 and S225   | US-PGPUB;<br>USPAT        | OR | OFF | 2008/07/22<br>09:58 |
| S227 | 36    | S226 and "bulk density"   | US-PGPUB;<br>USPAT        | OR | OFF | 2008/07/22<br>09:58 |
| S228 | 820   | S223 and S224   | US-PGPUB;<br>USPAT        | OR | OFF | 2008/07/22<br>10:01 |
| S229 | 228   | S228 and (branch or branches or branched or branching)  | US-PGPUB;<br>USPAT        | OR | OFF | 2008/07/22<br>10:02 |
| S230 | 14    | S229 and baker  | US-PGPUB;<br>USPAT        | OR | OFF | 2008/07/22<br>10:02 |
| S231 | 77    | S228 and baker  | US-PGPUB;<br>USPAT        | OR | OFF | 2008/07/22<br>10:04 |
| S232 | 28    | ("4816289").PN. OR<br>("5413866").URPN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/07/22<br>11:40 |
| S233 | 16    | ("4975261"   "5691054"  <br>"5726116"   "5776633"  <br>"5837081"   "5853865").<br>PN. OR ("6103373").URPN.                            | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/07/22<br>11:44 |
| S234 | 5     | ("6103373").PN. OR<br>("6489026").URPN.   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/07/22<br>11:46 |
| S235 | 11    | ("4648902"   "4975261"  <br>"5451476"   "5691054"  <br>"5726116"   "5747195"  <br>"5776633"   "5837081").<br>PN. OR ("6528211").URPN. | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/07/22<br>11:47 |
| S236 | 2     | ("2003/0224168").URPN.  | USPAT                     | OR | OFF | 2008/07/22<br>11:48 |
| S237 | 0     | ("2004/0036060").URPN.  | USPAT                     | OR | OFF | 2008/07/22<br>11:49 |
| S238 | 2     | ("5698341"   "6103373").<br>PN. OR ("6946110").URPN.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/07/22<br>11:49 |
| S239 | 8     | ("4572813"   "4663230"  <br>"4816289"   "5413866"  <br>"5643670"   "5908585"  <br>"6489026").PN. OR<br>("7122132").URPN.              | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/07/22<br>11:49 |
| S240 | 39    | "5594060"   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/07/22<br>12:20 |
| S241 | 0     | "2002146562"  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/07/22<br>12:26 |
| S242 | 2     | "20020146562"   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2008/07/22<br>12:26 |

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|------|---------|---|--|----|-----|---------------------|
| S243 | 137     | "4572813"   | US-PGRUB;<br>USPAT; USOCR                | OR | OFF | 2008/07/22<br>12:27 |
| S244 | 17      | "5643990"   | US-PGRUB;<br>USPAT; USOCR                | OR | OFF | 2008/07/22<br>12:33 |
| S245 | 1249058 | carbon  | US-PGRUB;<br>USPAT; USOCR                | OR | OFF | 2008/07/22<br>16:52 |
| S246 | 1192    | "vapor-grown" or "vapor grown" or "vapour-grown" or "vapour grown" or vgcf or vgcf's or "vgcf's"  | US-PGRUB;<br>USPAT; USOCR                | OR | OFF | 2008/07/22<br>16:53 |
| S247 | 999962  | fiber or fibers or fibre or fibres or filament or filaments   | US-PGRUB;<br>USPAT; USOCR                | OR | OFF | 2008/07/22<br>16:53 |
| S248 | 36461   | "bulk density"  | US-PGRUB;<br>USPAT; USOCR                | OR | OFF | 2008/07/22<br>16:53 |
| S249 | 1766686 | "specific resistance" or resistance or resistivity or resistivities   | US-PGRUB;<br>USPAT; USOCR                | OR | OFF | 2008/07/22<br>16:54 |
| S250 | 778627  | "TEM" or "SEM" or electron  | US-PGRUB;<br>USPAT; USOCR                | OR | OFF | 2008/07/22<br>16:54 |
| S251 | 1731378 | fiber or fibers or fibre or fibres or nanofiber or nanofibers or nanofibre or nanofibres or tube or tubes or nanotube or nanotubes or filament or filaments | US-PGRUB;<br>USPAT                       | OR | OFF | 2008/07/22<br>16:54 |
| S252 | 75761   | S245 near S251  | US-PGRUB;<br>USPAT                       | OR | OFF | 2008/07/22<br>16:55 |
| S253 | 2177    | S252 and S248   | US-PGRUB;<br>USPAT                       | OR | OFF | 2008/07/22<br>16:55 |
| S254 | 1167750 | "bulk density" or density   | US-PGRUB;<br>USPAT; USOCR                | OR | OFF | 2008/07/22<br>16:55 |
| S255 | 33555   | S252 and S254   | US-PGRUB;<br>USPAT; USOCR                | OR | OFF | 2008/07/22<br>16:55 |
| S256 | 22846   | S255 and S249   | US-PGRUB;<br>USPAT; USOCR                | OR | OFF | 2008/07/22<br>16:56 |
| S257 | 468     | S256 and S246   | US-PGRUB;<br>USPAT; USOCR                | OR | OFF | 2008/07/22<br>16:56 |
| S258 | 273     | S257 and S250   | US-PGRUB;<br>USPAT; USOCR                | OR | OFF | 2008/07/22<br>16:56 |
| S259 | 1698    | S253 and S249   | US-PGRUB;<br>USPAT                       | OR | OFF | 2008/07/22<br>16:56 |
| S260 | 90      | S259 and S246   | US-PGRUB;<br>USPAT                       | OR | OFF | 2008/07/22<br>16:57 |
| S261 | 64      | S260 and S250   | US-PGRUB;<br>USPAT                       | OR | OFF | 2008/07/22<br>16:57 |
| S262 | 77      | "58536"   | US-PGRUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/07/22<br>18:01 |

|      |    |            |  |    |     |                     |
|------|----|------------|--|----|-----|---------------------|
| S263 | 45 | "058536"   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/07/22<br>18:02 |
| S264 | 1  | "00058536" | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/07/22<br>18:02 |
| S265 | 31 | "0058536"  | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT | OR | OFF | 2008/07/22<br>18:02 |

7/ 23/ 2008 12:15:28 PM

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